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Substitute for Form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheet as necessary)

Complete if Known

Application Number	10/782,968
Filing Date	February 20, 2004
First Named Inventor	Kevin J. Williams
Group Art Unit	1642 1643
Examiner Name	A.M. Harris
Attorney Docket Number	W1107/20009
Customer No.	03000

Sheet 1 of 13

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
anh	AA	4,820,505		Ginsberg, et al.	04/11/1989
	AB	4,610,960		Mosher	09/09/1986
	AC	5,686,583		Bosslet, et al.	11/11/1997
	AD	5,256,538		Aiken, et al.	10/26/1993
	AE	5,192,744		Bouck, et al.	03/09/1993
	AF	6,239,110		Eyal, et al.	05/29/2001
	AG	5,654,277		Eyal, et al.	08/05/1997
	AH	5,840,692		Deutsch, et al.	11/24/1998
	AI	6,051,549		Roberts, et al.	04/18/2000
	AJ	5,753,517		Brooks, et al.	05/19/1998
	AK	5,840,507		Fruehauf	11/24/1998
	AL	6,339,062		Williams, et al.	01/15/2002
	AM	5,750,502		Jessell, et al.	05/12/1998
	AN	2001/0041670		Simantov, et al.	11/15/2001
	AO	2002/0197697		Abdelouahed, et al.	12/26/2002
	AP	2003/0180295		Tuszynski, et al.	09/25/2003

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T
anh	AQ	WO 01/05968		Tuszynski, et al.	01/25/2001	
anh	AR	International Search Report PCT/US03/260 23		Williams	08/20/2003	

### OTHER DOCUMENTS - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
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<b>OTHER DOCUMENTS - NON PATENT LITERATURE DOCUMENTS</b>					
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Amh	AS	Baenziger NL <i>et al.</i> Isolation and properties of a thrombin-sensitive protein of human platelets. J. Biol. Chem., 1972. 247:2723-2731.	
	AT	Lawler JW <i>et al.</i> Isolation and characterization of a high molecular weight glycoprotein from human blood platelets. J. Biol. Chem., 1978. 253(23):8609-8616. (Abstract only)	
	AU	Wallinder L <i>et al.</i> Rapid removal to the liver of intravenously injected lipoprotein lipase. Biochem. Biophys. Acta, 1979. Oct 26; 575(1):166-173. (Abstract only)	
	AV	Margossian SS <i>et al.</i> Physical characterization of platelet thrombospondin. J. Biol. Chem., 1981. 256(14):7495-7500.	
	AW	Saglio SD <i>et al.</i> Use of a radioimmunoassay to quantify thrombospondin. Blood, 1982. Jan; 59(1):162-166. (Abstract only)	
	AX	Mosher DF <i>et al.</i> Synthesis and secretion of thrombospondin by cultured human endothelial cells. J. Cell Biol., 1982. 93(2):343-348.	
	AY	Dawes J <i>et al.</i> A radioimmunoassay for thrombospondin, used in a comparative study of thrombospondin, beta-thromboglobulin and platelet factor 4 in healthy volunteers. Thromb. Res., 1983. March 15; 29:569-581.	
	AZ	Jaffe EA <i>et al.</i> Cultured human fibroblasts synthesize and secrete thrombospondin and incorporate it into extracellular matrix. Proc. Natl. Acad. Sci., USA, 1983. Feb; 80(4):998-1002.	
	BA	Prowse CV <i>et al.</i> A comparative study using immunological and biological assay of the haemostatic responses to DDAVP infusion venous occlusion and exercise in normal men. Thromb. Haemost., 1984. Feb 28; 51(1):110-114. (Abstract only)	
	BB	Mumby SM <i>et al.</i> Interactions of thrombospondin with extracellular matrix proteins: selective binding to type V collagen. J. Cell Biol., 1984. 98(2): 646-652. (Abstract only)	
	BC	Coligan, JE and Slayter HS. Structure of thrombospondin. J. Biol. Chem., 1984. 259:3944-3948.	

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amb	BD	Dixit VM <i>et al.</i> Isolation and characterization of a heparin-binding domain from the amino terminus of platelet thrombospondin. J Biol Chem, 1984. 259:10100-10105. (Abstract only)	
	BE	Lane DA <i>et al.</i> Detection of enhanced in vivo platelet alpha-granule release in different patient groups—comparison of beta-thromboglobulin, platelet factor 4 and thrombospondin assays. Thromb. Haemost., 1984. Oct 31; 52(2):183-187. (Abstract only)	
	BF	Lahav J <i>et al.</i> Thrombospondin interactions with fibronectin and fibrinogen. Mutual inhibition in binding. Eur. J. Biochem., 1984. Nov 15; 145(1):151-156. (Abstract only)	
	BG	Silverstein RL <i>et al.</i> Complex formation of platelet thrombospondin with plasminogen. Modulation of activation by tissue activator. J. Clin. Invest., 1984. Nov; 74(5):1625-1633. (Abstract only)	
	BH	Lawler J <i>et al.</i> The structure of human platelet thrombospondin. J. Biol. Chem., 1985. 260:3762-3772.	
	BI	Roberts DD <i>et al.</i> Thrombospondin binds falciparum malaria parasitized erythrocytes and may mediate cytoadherence. Nature, 1985. 318(6041):64-66. (Abstract only)	
	BJ	Jaffe EA <i>et al.</i> Monocytes and macrophages synthesize and secrete thrombospondin. Blood, 1985. Jan; 65(1):79-84. (Abstract only)	
	BK	Dixit VM <i>et al.</i> Effects of anti-thrombospondin monoclonal antibodies on the agglutination of erythrocytes and fixed, activated platelets by purified thrombospondin. Biochemistry, 1985. Jul 30; 24(16):4270-4275.	
	BL	Silverstein RL <i>et al.</i> Activation of immobilized plasminogen by tissue activator. Multimolecular complex formation. J. Biol. Chem., 1985. 260(18):10346-10352.	
	BM	Galvin NJ <i>et al.</i> Mapping of epitopes for monoclonal antibodies against human platelet thrombospondin with electron microscopy and high sensitivity amino acid sequencing. J. Cell Biol., 1985. 101(4):1434-1441.	

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anh	BN	Trzeciak MC <i>et al.</i> Plasma thrombospondin in patients with chronic renal failure, liver disease and splenectomy. Thromb. Res., 1985. Oct 1; 40(1):121-128. (Abstract only)	
	BO	Tuszynski GP <i>et al.</i> The interaction of human platelet thrombospondin with fibrinogen. Thrombospondin purification and specificity of interaction. J. Biol. Chem., 1985. 260(22):12240-12245.	
	BP	Miller WR <i>et al.</i> Platelet-associated proteins in human breast cyst fluids. Clin. Chim. Acta, 1985. Oct 31; 152(1-2):37-42. (Abstract only)	
	BQ	Switalska HI <i>et al.</i> Radioimmunoassay of human platelet thrombospondin: different patterns of thrombospondin and beta-thromboglobulin antigen secretion and clearance from the circulation. J. Lab. Clin. Med., 1985. Dec; 106(6):690-700. (Abstract only)	
	BR	Kaplan KL <i>et al.</i> Plasma levels of platelet secretory proteins. Crit. Rev. Oncol. Hematol., 1986. 5(3):235-255. (Abstract only)	
	BS	Dixit VM <i>et al.</i> Monoclonal antibodies that recognize calcium-dependent structures of human thrombospondin. Characterization and mapping of their epitopes. J. Biol. Chem., 1986, 261(4):1962-1968.	
	BT	Wolff R <i>et al.</i> Interaction of thrombospondin with resting and stimulated human platelets. J. Biol. Chem., 1986. 261(15):6840-6846.	
	BU	Kao KJ <i>et al.</i> A monoclonal antibody-based enzyme-linked immunosorbent assay for quantitation of plasma thrombospondin. Am. J. Clin. Pathol., 1986. Sep; 86(3):317-323. (Abstract only)	
	BV	Lawler, J., <i>et al.</i> Thrombin and chymotrypsin interactions with thrombospondin. Ann N Y Acad. Sci. 1986; 485:273-87.	
	BW	Tuszynski GP <i>et al.</i> Methods of studying platelet-secreted proteins and the platelet cytoskeleton, Alan R. Liss, Inc., New York, 1987. 4:267-286.	
	BX	Frazier WA. Thrombospondin: a modular adhesive glycoprotein of platelets and nucleated cell. J. Cell Biol., 1987. 105(2):625-632.	
	BY	Asch AS <i>et al.</i> Isolation of the thrombospondin membrane receptor. J. Clin. Invest., 1987. Apr; 79:1054-1076. (Abstract only)	

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amh	BZ	Galvin NJ <i>et al.</i> Interaction of human thrombospondin with types I-V collagen: direct binding and electron microscopy. J. Cell Biol., 1987. 104(5):1413-1422. (Abstract only)	
	CA	Dardik R <i>et al.</i> The structure of endothelial cell thrombospondin. Characterization of the heparin-binding domains. Eur. J. Biochem., 1987. Oct 15; 168(2):347-355. (Abstract only)	
	CB	McCrohan MB <i>et al.</i> Plasma thrombospondin as an indicator of intravascular platelet activation in patients with vasculitis. Thromb. Haemost., 1987. Oct 28; 58(3):850-852. (Abstract only)	
	CC	Walz, DA, <i>et al.</i> , Binding of thrombospondin to immobilized ligands: specific interaction with fibrinogen, plasminogen, histidine-rich glycoprotein, and fibronectin, Semin Throm Hemost. 13(3):317-325 1987.	
	CD	Legrand C <i>et al.</i> Use of a monoclonal antibody to measure the surface expression of thrombospondin following platelet activation. Eur. J. Biochem., 1988. Jan 15; 171(1-2):393-399. (Abstract only)	
	CE	Majack RA <i>et al.</i> Cell surface thrombospondin is functionally essential for vascular smooth muscle cell proliferation. J. Cell Biol. 1988. Feb.; 106: 415-422.	
	CF	Dawes J <i>et al.</i> Do extra-platelet sources contribute to the plasma level of thrombospondin? Thromb. Haemost., 1988. Apr 8; 59(2):273-276. (Abstract only)	
	CG	Clezardin P <i>et al.</i> Complex formation of human thrombospondin with osteonectin. Eur. J. Biochem., 1988. Aug 1; 175:275-284. (Abstract only)	
	CH	Asch AS and Nachman RL. Thrombospondin: phenomenology to function. Prog. Hemost. Thromb., 1989. 9:157-176. (Abstract only)	
	CI	Gehron-Robey P <i>et al.</i> Thrombospondin is an osteoblast-derived component of mineralized extracellular matrix. J. Cell Biol., 1989. 108:719-727.	
	CJ	Cardin AD and Weintraub HJ. Molecular modeling of protein-glycosaminoglycan interactions. Arteriosclerosis, 1989. Jan-Feb; 9(1):21-32. (Abstract only)	

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amb	CK	Bacon-Baguley T <i>et al.</i> Thrombospondin binding to specific sequences within the A $\alpha$ - and B $\beta$ -chains of fibrinogen. J. Biol. Chem., 1990. 265(4):2317-23.	
	CL	Silverstein RL <i>et al.</i> Thrombospondin forms complexes with single-chain and two-chain forms of urokinase. J. Biol. Chem., 1990. 265(19):11289-11294. (Abstract only)	
	CM	Good DJ <i>et al.</i> A tumor suppressor-dependent inhibitor of angiogenesis is immunologically and functionally indistinguishable from a fragment of thrombospondin. Proc. Natl. Acad. Sci., USA, 1990. Sep; 87:6624-6628.	
	CN	Gawaz MP <i>et al.</i> Effects of hemodialysis on platelet-derived thrombospondin. Kidney Int., 1991. Aug; 40(2):257-265. (Abstract only)	
	CO	Dardik R <i>et al.</i> Cell-binding domain of endothelial cell thrombospondin: localization to the 70kDa core fragment and determination of binding characteristics. Biochemistry, 1991. Sep 24; 30(38):9378-9386.	
	CP	Sage EH and Bornstein P. Extracellular proteins that modulate cell-matrix interactions. SPARC, tenascin, and thrombospondin. J. Biol. Chem., 1991. 266(23):14831-14834.	
	CQ	Frazier WA. Thrombospondins. Current. Opin. Cell Biol., 1991. 3(5): 792-799. (Abstract only)	
	CR	Tuszynski GP <i>et al.</i> Biological activities of peptides and peptide analogues derived from common sequences present in thrombospondin, properdin, and malarial proteins. J. Cell Biol., 1992. 116(1):209-217.	
	CS	Lawler J <i>et al.</i> Expression and mutagenesis of thrombospondin. Biochemistry, 1992. Feb 4; 31(4):1173-1180.	
	CT	Prater CA <i>et al.</i> The properdin-like type I repeats of human thrombospondin contain a cell attachment site. J. Cell Biol., 1991. 112(5):1031-1040.	
	CU	Osterhout DJ <i>et al.</i> Thrombospondin promotes process outgrowth in neurons from the peripheral and central nervous systems. Devel. Biol, 1992. 150(2):256-265. (Abstract only)	

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anh	CV	Tuszynski GP <i>et al.</i> Thrombospondin levels in patients with malignancy. Thromb. Haemost., 1992. 67(6):607-611. (Abstract only)	
	CW	Kosfeld MD <i>et al.</i> Identification of active peptide sequences in the carboxyl-terminal cell binding domain of human thrombospondin-1. J. Biol. Chem., 1992. 267(23):16230-16236.	
	CX	Zafar RS <i>et al.</i> Localization of two binding domains for thrombospondin within fibronectin. Arch. Biochem. Biophys., 1992. Sep; 297(2):271-276. (Abstract only)	
	CY	Soga T <i>et al.</i> Analysis of adhesive proteins on the surface of platelets from the patients with lung cancer: studies in histological type and clinical stage. Rinsho Ketsueki, 1992. Sep; 33(9):1121-1127. [Article in Japanese] (English Abstract only)	
	CZ	Takagi T <i>et al.</i> A single chain 19-kDa fragment from bovine thrombospondin binds to type V collagen and heparin. J. Biol. Chem., 1993. 268(21):15544-15549.	
	DA	Murphy-Ullrich JE <i>et al.</i> Heparin-binding peptides from thrombospondins 1 and 2 contain focal adhesion-labilizing activity. J. Biol. Chem., 1993. 268(35): 26784-26789. (Abstract only)	
	DB	Lawler J <i>et al.</i> Identification and characterization of thrombospondin-4, a new member of the thrombospondin gene family. J. Cell Biol., 1993. 120(4):1059-1067.	
	DC	Sipes JM <i>et al.</i> Inhibition of fibronectin binding and fibronectin-mediated cell adhesion to collagen by a peptide from the second type I repeat of thrombospondin. J. Cell Biol., 1993. 121(2):469-477.	
	DD	Tolsma <i>et al.</i> Peptides derived from two separate domains of the matrix protein thrombospondin-1 have anti-angiogenic activity. J. Cell Biol., 1993. 122(2):497-511.	
V	DE	Huang SW <i>et al.</i> The relationship between plasma thrombospondin level and the clinical course of atopic dermatitis. Allergy Proc., 1993. Sep-Oct; 14(5):357-361. (Abstract only)	

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anh	DF	Zammit A <i>et al.</i> Interaction of immobilised unfractionated and LMW heparins with proteins in whole human plasma. Thromb. Haemost., 1993. Dec 20; 70(6):951-958. (Abstract only)	
	DG	Morandi V <i>et al.</i> Characterization of a novel monoclonal antibody (V58A4) raised against a recombinant NH2-terminal heparin-binding fragment of human endothelial cell thrombospondin. FEBS Lett, 1994. 346(2-3):156-160. (Abstract only)	
	DH	Bayraktar M. <i>et al.</i> Platelet Factor 4, beta-thromboglobulin and thrombospondin levels in type I diabetes melitus patients. J. Int. Med. Res., 1994, Mar-Apr; 22(2):90-94. (Abstract only)	
	DI	Nathan FE <i>et al.</i> Plasma thrombospondin levels in patients with gynecological malignancies. Cancer, 1994. Jun 1; 73(11):2853-2858. (Abstract only)	
	DJ	Shen D <i>et al.</i> Effects of hypoxia on platelet activation in pilots. Aviat Space Environ. Med., 1994. Jul; 65(7):646-648. (Abstract only)	
	DK	Schultz-Cherry S <i>et al.</i> The type 1 repeats of thrombospondin 1 activate latent transforming growth factor-beta. J. Biol. Chem., 1994. 269(43): 26783-26788.	
	DL	Adams, JC, <i>et al.</i> The Thrombospondin Gene Family, Springer-Verlag: New York, 1995, pp.1-9, 11-56.	
	DM	Huang SW <i>et al.</i> Plasma thrombospondin levels in sheep with allergic asthma. Chest, 1996. Jun; 109(6):1614-1617.	
	DN	Qian X <i>et al.</i> Expression of thrombospondin-1 in cancer: a role in tumor progression. Proc. Soc. Exp. Biol. Med., 1996. Jul; 212(3):199-207.	
	DO	Levine DM and William KJ. Automated measurement of mouse apolipoprotein B: convenient screening tool for mouse models of atherosclerosis. Clin. Chem., 1997. 43(4):669-674. (Abstract only)	
✓	DP	Partin AW <i>et al.</i> Combination of prostate-specific antigen, clinical stage, and Gleason score to predict pathological stage of localized prostate cancer. A multi-institutional update. JAMA, 1997. 277(18):1445-1451. (Abstract only)	



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amb	DQ	Yamashita Y <i>et al.</i> Plasma thrombospondin levels in patients with colorectal carcinoma. Cancer, 1998. Feb 15; 82(4):632-638. (Abstract only)	
	DR	Goundis D <i>et al.</i> Properdin, the terminal complement components, thrombospondin and the circumsporozoite protein of malaria parasites contain similar sequence motifs. Nature, 1988. Sep 1; 335(6185):82-5. (Abstract only)	
	DS	Ozatli D <i>et al.</i> Circulating thrombomodulin, thrombospondin, and fibronectin in acute myeloblastic leukemias. Haematologia (Budap.), 1999. 29(4):277-283. (Abstract only)	
	DT	Kanda S <i>et al.</i> Role of thrombospondin-1-derived peptide, 4N1K, in FGF-2-induced angiogenesis. Exp. Cell Res., 1999. 252(2):262-272.	
	DU	Panetti TS <i>et al.</i> Interaction of recombinant procollagen and properdin modules of thrombospondin-1 with heparin and fibrinogen/fibrin. J. Biol. Chem., 1999. 274(1):430-437.	
	DV	Stancik R <i>et al.</i> Plasma levels of TPA, PAI-1 and thrombospondin in patients with systemic vasculitis. Clin. Appl. Thromb. Hemost., 1999. Apr; 5(2):140-141.	
	DW	Roth JJ <i>et al.</i> Thrombospondin 1 and its specific cysteine-serine-valine-threonine-cysteine-cycline receptor in fetal wounds. Ann. Plast. Surg., 1999. May; 42(5):553-563. (Abstract only)	
	DX	Altun B <i>et al.</i> Thrombopoietin and thrombospondin in renal allograft recipients. Blood Coagul. Fibrinolysis, 1999. Jul; 10(5):233-237. (Abstract only)	
✓	DY	Krutzsch HC <i>et al.</i> Identification of an $\alpha(3)\beta(1)$ integrin recognition sequence in thrombospondin-1. J. Biol. Chem., 1999. 274(34):24080-24086.	
✓	DZ	Nomura S <i>et al.</i> Relationship between platelet activation and cytokines in systemic inflammatory response syndrome patients with hematological malignancies. Thromb. Res., 1999. Sep 1; 95:205-213.	

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auth	EA	Michelson AD and Furman MI. Laboratory markers of platelet activation and their clinical significance. Curr. Opin. Hematol., 1999. Sep; 6(5):342-348.	
	EB	Chen et al. Cartilage oligomeric matrix protein is a calcium-binding protein, and a mutation in its type 3 repeats causes conformational changes. J. Biol. Chem., 2000. 275(34):26538-26544.	
	EC	Voland C <i>et al.</i> Platelet-osteosarcoma cell interaction is mediated through a specific fibrinogen-binding sequence located within the N-terminal domain of thrombospondin 1. J. Bone Miner. Res., 2000. Feb; 15(2):361-368. (Abstract only)	
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				First Named Inventor	Kevin J. Williams
				Group Art Unit	1642-1643
				Examiner Name	A.M. Harris
				Attorney Docket Number	W1107/20009
				Customer No.	03000
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**OTHER DOCUMENTS - NON PATENT LITERATURE DOCUMENTS**

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amh	EK	Damas C <i>et al.</i> The 33-kDa platelet alpha-granule membrane protein (GMP-33) is an N-terminal proteolytic fragment of thrombospondin. <i>Thromb. Haemost.</i> Sep;86(3):887-893. (Abstract only)	
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				Group Art Unit	1642 1643
				Examiner Name	A. M. Harris, Ph.D.
				Attorney Docket Number	W1107/20009
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amh	EV	Stamey TA <i>et al.</i> Preoperative serum prostate specific antigen levels between 2 and 22 ng./ml. correlate poorly with post-radical prostatectomy cancer morphology: prostate specific antigen cure rates appear constant between 2 and 9 ng./ml. J Urology, 2002. Jan; 167(1):103-111. (Abstract only)	
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anh	FE	Lu D <i>et al.</i> Fab-scFv fusion protein: an efficient approach to production of bispecific antibody fragments. J. Immunol. Methods, 2002. Sep 15; 267(2):213-226. (Abstract only)	
	FF	Oelschlaeger P <i>et al.</i> Fluorophor-linked immunosorbent assay: a time- and cost-saving method for the characterization of antibody fragments using a fusion protein of a single-chain antibody fragment and enhanced green fluorescent protein. Anal. Biochem, 2002. Oct 1; 309(1):27-34. (Abstract only)	
	FG	Gao C <i>et al.</i> A method for the generation of combinatorial antibody libraries using pIX phage display. Proc. Natl. Acad. Sci., USA, 2002. Oct 1; 99(20):12612-12616. (Abstract only)	
	FH	Lee KJ <i>et al.</i> Phage-display selection of a human single-chain fv antibody highly specific for melanoma and breast cancer cells using a chemoenzymatically synthesized G(M3)-carbohydrate antigen. J. Am. Chem. Soc., 2002. Oct 23; 124(42):12439-12446. (Abstract only)	
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EXAMINER	A. M. Harris	DATE CONSIDERED	10/15/2007
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\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.